Thermochimica Acta, 202 (1992) 307
Elsevier Science Publishers B.V., Amsterdam

AUTHOR INDEX

Adamowicz, L. 249
Albano, P. 35

Baba, Y. 241
Bakowies, D. 249
Ball, G.F.A. 201
Benedettí, A.V. 45
Boone, S. 113
Budrugeac, P. 121

Czupińska, G. 77, 81

David, H.L. 45
De Robertis, A. 133
De Stefano, C. 133
Diefallah, E.-H.M. 1
Dockal, E.R. 45

Elegant, L. 233
Eliseev, A.V. 25

Girault, Y. 233
Gonthier-Vassal, A. 87
Guo, Y. 65

Herrington, P.R. 201

Ionashiro, M. 45
Ismail, H.M. 269

Jiang, B.-G. 223
Jung, J. 281

Kagemoto, A. 241
Kleppa, O.J. 113
Kunihiro, A. 241

Li, H.P. 105
Liu, D.-Q. 223
Liu, H.-G. 223
Lumpkin, J.A. 151

Mansour, S.A.A. 269
Mitra, S. 255
Mulokozi, A.M. 17

Nemykina, E.V. 25

Oguni, M. 215
Ohta, T. 51
Okamoto, N. 215
Ou, S.-S. 65

Patel, R.G. 97
Patel, S.R. 97
Patrick, J.E. 201
Pereira, E. 35
Perlmutter, D.D. 151

Rekharsky, M.V. 25
Richardson, D.E. 173
Rigano, C. 133
Romain, F. 87

Sahadev, 291
Sammartano, S. 133
Sbirrazzuoli, N. 233
Scian, A.N. 35
Segal, E. 121
Sharma, R.K. 291
Sharpe, P. 173
Sindhwani, S.K. 291
Singh, L.K. 255
Slanina, Z. 249
Song, Z.-H. 65
Suga, H. 215
Szuszkiewicz, W. 71
Szwarc, H. 87

Tang, C.-B. 65
Thiel, W. 249
Tokárová, L.A. 181
Töpfer, J. 281

Xie, C.-L. 65

Yan, H.-K. 223
Yang, M.L. 105
Yang, R. 301
Yang, Y. 301
Yatsimirsky, A.K. 25

Zaki, M.I. 269
Zamian, J.R. 45
Zeman, S. 181, 191
Zhang, J.-H. 223
Zhang, Z.Y. 105

Thermochimica Acta, 202 (1992) 309–314
Elsevier Science Publishers B.V., Amsterdam

SUBJECT INDEX

Activation energy
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97
Adiabatic
Low temperature calorimetric study of methyl acetate (Okamoto et al.) 215
Ageing
Determination of the relative oxidative stability of petroleum bitumens by thermogravimetry (Herrington et al.) 201
Ageing compensation effect
The ageing compensation effect in the thermal degradation of some electrical insulators (Budrugeac, Segal) 121
Alumina
Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine (Ismail et al.) 269
Aluminium
Formation of β'-sialon in the Al–SiO_2–N_2 system (Albano et al.) 35
Aminoacridine
Thermodynamic characterization of the 9-aminoacridine intercalated into DNA (Baba et al.) 241
Arrhenius
Relationship between the Arrhenius parameters of the low-temperature thermolysis and the ^{13}C and ^{15}N chemical shifts of nitramines (Zeman) 191
Atmosphere
Formation of β'-sialon in the Al–SiO_2–N_2 system (Albano et al.) 35

Barium chloride
Diffusional limitations on the kinetics of dehydration reactions of hydrated barium chloride (Lumpkin, Perlmutter) 151
Bitumens
Determination of the relative oxidative stability of petroleum bitumens by thermogravimetry (Herrington et al.) 201
Bromothiopnene
DSC study of 2-bromothiophene: a compound with three melting points (Gonthier-Vassal et al.) 87

Cadmium carbonate
The thermal decomposition kinetics of $CdCO_3$ powder (Mulokozi) 17
Cadmium chloride
Microcalorimetry study of seminiferous tubules in vitro (Xie et al.) 65
Cadmium compound
Thermal investigation and stereochemical studies of some cyclic diamine complexes of nickel(II), zinc(II) and cadmium(II) in the solid state (Mitra, Singh) 255
Ceramics
Thermal decomposition of mixed crystals $Ni_xMn_{3-x}(C_2O_4)_3 \cdot 6H_2O$ (Töpfer, Jung) 281
Ceric sulphate
Study on the thermal decomposition of tetrahydrated ceric sulphate (Yang, Yang) 301
Chelation
Thermal studies on the chelation behaviour of biologically active 2-hydroxy-1-naphthaldehyde thiosemicarbazone (HNATS) towards bivalent metal ions: a potentiometric study (Sahadev et al.) 291
Condensate
Thermogravimetric analysis of urea–formaldehyde polycondensates (Zeman, Tokárová) 181
Co-ordination compound
Calorimetric titration for coordination reactions of dibenzo-30-crown-10 with rare earth perchlorates in titrate of acetonitrile containing 0.5 vol.% water (Liu et al.) 223
Copper phosphide
Determination of the standard enthalpy of formation of Cu_3P by direct-combination drop calorimetry (Boone, Kleppa) 113
Crown ether
Calorimetric titration for coordination reactions of dibenzo-30-crown-10 with rare earth perchlorates in titrate of acetonitrile containing 0.5 vol.% water (Liu et al.) 223
Crystal
Thermal decomposition of mixed crystals $Ni_xMn_{3-x}(C_2O_4)_3 \cdot 6H_2O$ (Töpfer, Jung) 281
Curing
Effect of the anhydride structure on the

curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97

Cyclodextrin
Thermodynamics of molecular recognition of nitrogen heterocycles. Part 1. Interaction of imidazole and imidazolium cation with α-cyclodextrin and β-cyclodextrin (Rekharsky et al.) 25

Decomposition
Kinetic analysis of thermal decomposition reactions. Part VI. Thermal decomposition of manganese(II) acetate tetrahydrate (Diefallah) 1

Dehydration
Diffusional limitations on the kinetics of dehydration reactions of hydrated barium chloride (Lumpkin, Perlmutter) 151

Desorption
Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine (Ismail et al.) 269

Diffusion
Diffusional limitations on the kinetics of dehydration reactions of hydrated barium chloride (Lumpkin, Perlmutter) 151

Direct-combination drop calorimetry
Determination of the standard enthalpy of formation of Cu_3P by direct-combination drop calorimetry (Boone, Kleppa) 113

DNA
Thermodynamic characterization of the 9-aminoacridine intercalated into DNA (Baba et al.) 241

DSC
DSC study of 2-bromothiophene: a compound with three melting points (Gonthier-Vassal et al.) 87
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97
Kinetic study of solid–plastic transitions. Part 1. Comparison of methods describing the transition by differential scanning calorimetry (Sbirrazzuoli et al.) 233
Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine (Ismail et al.) 269
Study on the thermal decomposition of tetrahydrated ceric sulphate (Yang, Yang) 301

DTA
Kinetic analysis of thermal decomposition reactions. Part VI. Thermal decomposition of manganese(II) acetate tetrahydrate (Diefallah) 1
Formation of β'-sialon in the $Al–SiO_2–N_2$ system (Albano et al.) 35
The system $YPO_4–Na_3PO_4–Na_4P_2O_7$ (Szuszkiewicz) 71
Phase equilibria in the system $YPO_4–Mg(PO_3)_2$ (Czupińska) 77
Phase equilibria in the system $Y_2O_3–K_3PO_4–K_3Y(PO_4)_2$ (Czupińska) 81
Thermal investigation and stereochemical studies of some cyclic diamine complexes of nickel(II), zinc(II) and cadmium(II) in the solid state (Mitra, Singh) 255
Thermal decomposition of mixed crystals $Ni_xMn_{3-x}(C_2O_4)_3 \cdot 6H_2O$ (Töpfer, Jung) 281

DTG
Thermogravimetric analysis of urea–formaldehyde polycondensates (Zeman, Tokárová) 181

Electron attachment
The ion and thermal electron conventions applied to free energies of ionization and electron attachment (Sharpe, Richardson) 173

Enthalpy
Prediction of ternary excess enthalpies using the PRSV and PRSV2 equations of state (Ohta) 51
Heat capacity and phase transitions of mixtures of neopentylglycol and pentaerythritol from 270 K to their melting points (Zhang et al.) 105

Epoxy
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97

Equation of state
Prediction of ternary excess enthalpies using the PRSV and PRSV2 equations of state (Ohta) 51

Ether
Calorimetric titration for coordination reactions of dibenzo-30-crown-10 with rare earth perchlorates in titrate of acetonitrile containing 0.5 vol.% water (Liu et al.) 223

Explosive
Relationship between the Arrhenius parameters of the low-temperature thermolysis and the ^{13}C and ^{15}N chemical shifts of nitramines (Zeman) 191

Formaldehyde
Thermogravimetric analysis of urea–for-

maldehyde polycondensates (Zeman, Tokárová) 181

Fullerene
Fullerene C_{50} isomers: temperature-induced interchange of relative stabilities (Slanina et al.) 249

GC
Thermal decomposition of vanadyl Schiff-base compounds (David et al.) 45

Gibbs energy
The ion and thermal electron conventions applied to free energies of ionization and electron attachment (Sharpe, Richardson) 173

Glue
Thermogravimetric analysis of urea–formaldehyde polycondensates (Zeman, Tokárová) 181

Gossypol
Microcalorimetry study of seminiferous tubules in vitro (Xie et al.) 65

Heat capacity
Heat capacity and phase transitions of mixtures of neopentylglycol and pentaerythritol from 270 K to their melting points (Zhang et al.) 105
Low temperature calorimetric study of methyl acetate (Okamoto et al.) 215

Heat of explosion
Relationship between the Arrhenius parameters of the low-temperature thermolysis and the ^{13}C and ^{15}N chemical shifts of nitramines (Zeman) 191

Heat of formation
Determination of the standard enthalpy of formation of Cu_3P by direct-combination drop calorimetry (Boone, Kleppa) 113
The ion and thermal electron conventions applied to free energies of ionization and electron attachment (Sharpe, Richardson) 173

Hydroxy-naphthaldehyde thiosemicarbazone
Thermal studies on the chelation behaviour of biologically active 2-hydroxy-1-naphthaldehyde thiosemicarbazone (HNATS) towards bivalent metal ions: a potentiometric study (Sahadev et al.) 291

Imidazole
Thermodynamics of molecular recognition of nitrogen heterocycles. Part 1. Interaction of imidazole and imidazolium cation with α-cyclodextrin and β-cyclodextrin (Rekharsky et al.) 25

Inhibition
Microcalorimetry study of seminiferous tubules in vitro (Xie et al.) 65

Intercalation
Thermodynamic characterization of the 9-aminoacridine intercalated into DNA (Baba et al.) 241

Ion convention
The ion and thermal electron conventions applied to free energies of ionization and electron attachment (Sharpe, Richardson) 173

Ionization
The ion and thermal electron conventions applied to free energies of ionization and electron attachment (Sharpe, Richardson) 173

IPDT
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97

Isothermal
Determination of the relative oxidative stability of petroleum bitumens by thermogravimetry (Herrington et al.) 201

Kinetics
Kinetic analysis of thermal decomposition reactions. Part VI. Thermal decomposition of manganese(II) acetate tetrahydrate (Difefallah) 1
The thermal decomposition kinetics of $CdCO_3$ powder (Mulokozi) 17
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97
Diffusional limitations on the kinetics of dehydration reactions of hydrated barium chloride (Lumpkin, Perlmutter) 151
Kinetic study of solid–plastic transitions. Part 1. Comparison of methods describing the transition by differential scanning calorimetry (Sbirrazzuoli et al.) 233

Lanthanon
Calorimetric titration for coordination reactions of dibenzo-30-crown-10 with rare earth perchlorates in titrate of acetonitrile containing 0.5 vol.% water (Liu et al.) 223

Magnesium metaphosphate
Phase equilibria in the system YPO_4–$Mg(PO_3)_2$ (Czupińska) 77

Metabolic activity
Microcalorimetry study of seminiferous tubules in vitro (Xie et al.) 65

Methyl acetate
Low temperature calorimetric study of methyl acetate (Okamoto et al.) 215
Microcalorimetry
Microcalorimetry study of seminiferous tubules in vitro (Xie et al.) 65
Microscopy
The system YPO_4–Na_3PO_4–$Na_4P_2O_7$ (Szuszkiewicz) 71
Phase equilibria in the system Y_2O_3–K_3PO_4–$K_3Y(PO_4)_2$ (Czupińska) 81
MNDO calculations
Fullerene C_{50} isomers: temperature-induced interchange of relative stabilities (Slanina et al.) 249
Model
Kinetic analysis of thermal decomposition reactions. Part VI. Thermal decomposition of manganese(II) acetate tetrahydrate (Diefallah) 1
Salt effects on the protonation of oxalate in aqueous NaCl, KCl and tetraethylammonium iodide solution at $5 \leq T \leq 50$°C and $0 \leq I \leq 1$ mol dm^{-3} (De Robertis et al.) 133

Neopentylglycol
Heat capacity and phase transitions of mixtures of neopentylglycol and pentaerythritol from 270 K to their melting points (Zhang et al.) 105
Nickel compound
Thermal investigation and stereochemical studies of some cyclic diamine complexes of nickel(II), zinc(II) and cadmium(II) in the solid state (Mitra, Singh) 255
Nitramine
Relationship between the Arrhenius parameters of the low-temperature thermolysis and the ^{13}C and ^{15}N chemical shifts of nitramines (Zeman) 191
Nitrogen
Formation of β'-sialon in the Al–SiO_2–N_2 system (Albano et al.) 35
NMR
Relationship between the Arrhenius parameters of the low-temperature thermolysis and the ^{13}C and ^{15}N chemical shifts of nitramines (Zeman) 191
Non-isothermal
Determination of the relative oxidative stability of petroleum bitumens by thermogravimetry (Herrington et al.) 201
NRTL
Prediction of ternary excess enthalpies using the PRSV and PRSV2 equations of state (Ohta) 51

Oxalate
Salt effects on the protonation of oxalate in aqueous NaCl, KCl and tetraethylammonium iodide solution at $5 \leq T \leq 50$°C and $0 \leq I \leq 1$ mol dm^{-3} (De Robertis et al.) 133
Oxidative stability
Determination of the relative oxidative stability of petroleum bitumens by thermogravimetry (Herrington et al.) 201

Pentaerythritol
Heat capacity and phase transitions of mixtures of neopentylglycol and pentaerythritol from 270 K to their melting points (Zhang et al.) 105
Phase
Formation of β'-sialon in the Al–SiO_2–N_2 system (Albano et al.) 35
The system YPO_4–Na_3PO_4–$Na_4P_2O_7$ (Szuszkiewicz) 71
Phase equilibria in the system Y_2O_3–K_3PO_4–$K_3Y(PO_4)_2$ (Czupińska) 81
DSC study of 2-bromothiophene: a compound with three melting points (Gonthier-Vassal et al.) 87
Phase equilibrium
Phase equilibria in the system YPO_4–$Mg(PO_3)_2$ (Czupińska) 77
Phase transition
Heat capacity and phase transitions of mixtures of neopentylglycol and pentaerythritol from 270 K to their melting points (Zhang et al.) 105
Polycondensate
Thermogravimetric analysis of urea–formaldehyde polycondensates (Zeman, Tokárová) 181
Polymeric materials
The ageing compensation effect in the thermal degradation of some electrical insulators (Budrugeac, Segal) 121
Potassium orthophosphate
Phase equilibria in the system Y_2O_3–K_3PO_4–$K_3Y(PO_4)_2$ (Czupińska) 81
Potassium–yttrium phosphate
Phase equilibria in the system Y_2O_3–K_3PO_4–$K_3Y(PO_4)_2$ (Czupińska) 81
Potentiometer
Salt effects on the protonation of oxalate in aqueous NaCl, KCl and tetraethylammonium iodide solution at $5 \leq T \leq 50$°C and $0 \leq I \leq 1$ mol dm^{-3} (De Robertis et al.) 133
Potentiometry
Thermal studies on the chelation behaviour of biologically active 2-hydroxy-1-naphthaldehyde thiosemicarbazone (HNATS) to-

wards bivalent metal ions: a potentiometric study (Sahadev et al.) 291
Protonation
Salt effects on the protonation of oxalate in aqueous NaCl, KCl and tetraethylammonium iodide solution at $5 \leq T \leq 50$°C and $0 \leq I \leq 1$ mol dm^{-3} (De Robertis et al.) 133
PRSV2
Prediction of ternary excess enthalpies using the PRSV and PRSV2 equations of state (Ohta) 51
Prediction of ternary excess enthalpies using the PRSV and PRSV2 equations of state (Ohta) 51
Pyridine
Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine (Ismail et al.) 269

Resin
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97

Schiff base
Thermal decomposition of vanadyl Schiff-base compounds (David et al.) 45
Seminiferous tubules
Microcalorimetry study of seminiferous tubules in vitro (Xie et al.) 65
Sialon
Formation of β'-sialon in the Al–SiO_2–N_2 system (Albano et al.) 35
Silica
Formation of β'-sialon in the Al–SiO_2–N_2 system (Albano et al.) 35
Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine (Ismail et al.) 269
Sodium orthophosphate
The system YPO_4–Na_3PO_4–$Na_4P_2O_7$ (Szuszkiewicz) 71
Sodium pyrophosphate
The system YPO_4–Na_3PO_4–$Na_4P_2O_7$ (Szuszkiewicz) 71
Spinel
Thermal decomposition of mixed crystals $Ni_xMn_{3-x}(C_2O_4)_3 \cdot 6H_2O$ (Töpfer, Jung) 281
Stereochemistry
Thermal investigation and stereochemical studies of some cyclic diamine complexes of nickel(II), zinc(II) and cadmium(II) in the solid state (Mitra, Singh) 255
Surface properties
Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine (Ismail et al.) 269

TA
Thermal decomposition of mixed crystals $Ni_xMn_{3-x}(C_2O_4)_3 \cdot 6H_2O$ (Töpfer, Jung) 281
TG
Kinetic analysis of thermal decomposition reactions. Part VI. Thermal decomposition of manganese(II) acetate tetrahydrate (Diefallah) 1
The thermal decomposition kinetics of $CdCO_3$ powder (Mulokozi) 17
Thermal decomposition of vanadyl Schiff-base compounds (David et al.) 45
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97
Thermal decomposition of mixed crystals $Ni_xMn_{3-x}(C_2O_4)_3 \cdot 6H_2O$ (Töpfer, Jung) 281
TGA
Effect of the anhydride structure on the curing kinetics and thermal stability of tetrafunctional epoxy resin (Patel, Patel) 97
Thermogravimetric analysis of urea–formaldehyde polycondensates (Zeman, Tokárová) 181
Determination of the relative oxidative stability of petroleum bitumens by thermogravimetry (Herrington et al.) 201
Thermal investigation and stereochemical studies of some cyclic diamine complexes of nickel(II), zinc(II) and cadmium(II) in the solid state (Mitra, Singh) 255
Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine (Ismail et al.) 269
TG–DTA
Study on the thermal decomposition of tetrahydrated ceric sulphate (Yang, Yang) 301
TG–DTG
Study on the thermal decomposition of tetrahydrated ceric sulphate (Yang, Yang) 301
Thermal decomposition
Study on the thermal decomposition of tetrahydrated ceric sulphate (Yang, Yang) 301

Thermal degradation
The ageing compensation effect in the thermal degradation of some electrical insulators (Budrugeac, Segal) 121
Thermal electron convention
The ion and thermal electron conventions applied to free energies of ionization and electron attachment (Sharpe, Richardson) 173
Thermistor
Thermal decomposition of mixed crystals $Ni_xMn_{3-x}(C_2O_4)_3 \cdot 6H_2O$ (Töpfer, Jung) 281
Thermodynamic characterization
Thermodynamic characterization of the 9-aminoacridine intercalated into DNA (Baba et al.) 241
Thermodynamics
Thermodynamics of molecular recognition of nitrogen heterocycles. Part 1. Interaction of imidazole and imidazolium cation with α-cyclodextrin and β-cyclodextrin (Rekharsky et al.) 25
Salt effects on the protonation of oxalate in aqueous NaCl, KCl and tetraethylammonium iodide solution at $5 \leq T \leq 50$°C and $0 \leq I \leq 1$ mol dm^{-3} (De Robertis et al.) 133
Fullerene C_{50} isomers: temperature-induced interchange of relative stabilities (Slanina et al.) 249
Thermolysis
Relationship between the Arrhenius parameters of the low-temperature thermolysis and the ^{13}C and ^{15}N chemical shifts of nitramines (Zeman) 191
Titrimetry
Calorimetric titration for coordination reactions of dibenzo-30-crown-10 with rare earth perchlorates in titrate of acetonitrile containing 0.5 vol.% water (Liu et al.) 223
Transition
Kinetic study of solid–plastic transitions. Part 1. Comparison of methods describing the transition by differential scanning calorimetry (Sbirrazzuoli et al.) 233

UNIQUAC
Prediction of ternary excess enthalpies using the PRSV and PRSV2 equations of state (Ohta) 51
Urea UFPC
Thermogravimetric analysis of urea–formaldehyde polycondensates (Zeman, Tokárová) 181

XRD
Formation of β'-sialon in the Al–SiO_2–N_2 system (Albano et al.) 35
Thermal decomposition of vanadyl Schiff-base compounds (David et al.) 45
The system YPO_4–Na_3PO_4–$Na_4P_2O_7$ (Szuszkiewicz) 71
Phase equilibria in the system YPO_4–$Mg(PO_3)_2$ (Czupińska) 77
Phase equilibria in the system Y_2O_3–K_3PO_4–$K_3Y(PO_4)_2$ (Czupińska) 81

Yttrium compound
Phase equilibria in the system Y_2O_3–K_3PO_4–$K_3Y(PO_4)_2$ (Czupińska) 81
Yttrium orthophosphate
The system YPO_4–Na_3PO_4–$Na_4P_2O_7$ (Szuszkiewicz) 71
Phase equilibria in the system YPO_4–$Mg(PO_3)_2$ (Czupińska) 77
Yttrium oxide
Phase equilibria in the system Y_2O_3–K_3PO_4–$K_3Y(PO_4)_2$ (Czupińska) 81

Zinc compound
Thermal investigation and stereochemical studies of some cyclic diamine complexes of nickel(II), zinc(II) and cadmium(II) in the solid state (Mitra, Singh) 255